

DRAFT INDEPENDENT CLAIMS FOR DISCUSSION (2/1/2008)

1. (Previously presented) A prosthesis, comprising:
a femoral prosthesis configured to cover a portion of the distal end of a femur,
comprising:
a saddle-shaped trochlear groove portion comprising:
a central convexly-shaped groove extended toward a distal end of
the femoral prosthesis;
a convexly-shaped medial portion extending upwardly away from a
first side of the central groove; and
a convexly-shaped lateral portion extending upwardly away from a
second side of the central groove; and
an intercondylar notch portion intersecting the trochlear groove portion,
comprising:
a first wing extending distally and curving posteriorally from the
distal end of the medial portion; and
a second wing extending distally and curving posteriorally from the
distal end of the lateral portion and curving away from the
first wing; and
a patellar prosthesis configured to cover a posterior portion of a patella,
comprising a first surface configured to be attached to a patella, and a
second surface configured to cooperate with the trochlear groove and
intercondylar notch portions of the femoral prosthesis to facilitate sliding
engagement between the femoral prosthesis and the patella prosthesis;
wherein the first and second wings are tapered so that adjacent the trochlear
groove portion the wings have a width that is greater than terminal ends of
the wings.
14. (Currently Amended) A knee prosthesis for covering a portion of a patient's
patella, and trochlear groove and intercondylar notch of the femur, comprising:
a patellar prosthesis configured to cover a posterior surface of a patella; and
a femoral prosthesis comprising:
a body having a posterior surface configured to cover a portion of the
trochlear groove and an anterior surface forming a groove that is
cooperable with the posterior surface of the patellar prosthesis;
and one of either:
a medial extension projecting away from a distal end of the body
configured to extend along a medial edge of the intercondylar
notch; and
a lateral extension projecting away from a distal end of the body
configured to extend along a lateral edge of the intercondylar
notch;
wherein the medial or lateral extension is configured so that the femoral
prosthesis has an edge that terminates along a surface configured to form
an articular surface between the patella and the femur without
substantially overlying an articular surface between the femur and the

tibia; and
wherein the medial or lateral extension has a length and a width adjacent the distal end of the body and a length, wherein and the length is substantially greater than the width.

50. (Currently Amended) A femoral prosthesis, comprising:
a body having a posterior surface configured to overlie a portion of the trochlear groove and an anterior surface forming a groove that is configured to cooperate with a posterior surface of a patellar prosthesis; and
an intercondylar notch portion connected with the body projecting transverse the body, wherein the intercondylar notch portion has outer edges that terminate so that the intercondylar notch portion is configured to overlie at least a portion of the intercondylar notch without substantially extending over an articular surface between a condyle and the tibia, and wherein the intercondylar notch portion has a length and a width adjacent the distal end of the body and a length, wherein and the length is greater than the width..
59. (Previously Presented) A femoral prosthesis, comprising:
a first portion configured to cover a portion of the length of the trochlear groove on the distal end of a femur;
a second portion connected to a distal end of the first portion configured to cover a portion of the intercondylar notch on the distal end of the femur, wherein the second portion comprises:
first and second extensions that flare outwardly from the distal end of the first portion, wherein the first extension extends transverse the first portion laterally and posteriorly of the first portion, and the second extension extends transverse the first portion medially and posteriorally of the first portion;
wherein the first portion tapers inwardly from medial and lateral directions to form a narrow waist adjacent the intersection of the first and second portions.
69. (Previously Presented) A patello-femoral prosthesis, comprising:
a femoral prosthesis, comprising:
a trochlear groove portion having a posterior surface configured to overlie a portion of a trochlear groove and an anterior surface forming a groove;
an intercondylar notch portion connected with the trochlear groove portion, wherein the intercondylar notch portion has outer edges that terminate so that the intercondylar notch portion is configured to overlie at least a portion of the intercondylar notch without substantially extending over an articular surface of a condyle, wherein the intercondylar notch portion forms a terminal portion of the femoral prosthesis;
wherein the trochlear groove portion tapers inwardly from a medial and lateral direction to form a narrow waist adjacent the intercondylar notch portion; and

a patella portion configured to replace a surface of a patella and cooperate with the groove in the trochlear groove portion.

78. (Currently Amended) A femoral prosthesis, comprising:
a first portion having a posterior surface configured to overlie a portion of a trochlear groove and an anterior surface forming a groove cooperable with a patella;
a second portion connected with the first portion, wherein the second portion is configured to overlie a portion of the intercondylar notch forming a surface cooperable with the patella;
wherein the second portion flares either medially to overlie a medial portion of the intercondylar notch, or laterally to overlie a lateral portion of the intercondylar notch, and is configured so that the prosthesis has a terminal edge along the intercondylar notch;
and wherein the second portion has a length and a width adjacent the first portion and a length, wherein and the length is greater than the width.
84. (Previously Amended) A knee prosthesis for covering a portion of a patient's patella, and trochlear groove and intercondylar notch of the femur, comprising:
a patellar prosthesis configured to cover a posterior surface of a patella; and
a femoral prosthesis comprising:
a body having a posterior surface configured to cover a portion of the trochlear groove and an anterior surface forming a groove that is cooperable with the posterior surface of the patellar prosthesis;
a medial extension projecting away from a distal end of the body configured to extend along a medial edge of the intercondylar notch; and
a lateral extension projecting away from a distal end of the body configured to extend along a lateral edge of the intercondylar notch;
wherein at least one of the medial extension and the lateral extension has a length that is at least approximately one quarter the length of the body portion;
a separate condyle prosthesis configured to cover an articular surface of a condyle, wherein the condyle prosthesis has an inner edge configured to cooperate with an outer edge of the either the medial or lateral extension.